

**UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF NEW YORK**

In Re: OpenAI, Inc. Copyright Infringement
Litigation

1:25-md-3143-SHS-OTW

This Document Relates To:

Case No. 1:23-cv-11195-SHS-OTW
Case No. 1:24-cv-03285-SHS-OTW
Case No. 1:24-cv-04872-SHS-OTW
Case No. 1:23-cv-08292-SHS-OTW
Case No. 1:23-cv-10211-SHS-OTW
Case No. 1:25-cv-03482-SHS-OTW

**DEFENDANT MICROSOFT CORPORATION'S JUNE 26, 2025 TECHNOLOGY
TUTORIAL DEMONSTRATIVES**



In re: OpenAI, Inc. Copyright Infringement Litigation
25-md-3143 (SHS) (OTW)

Microsoft's Technology Tutorial

Agenda

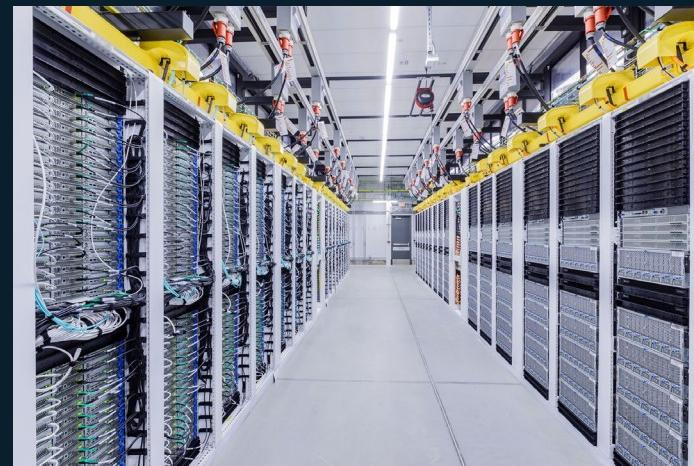
01. Microsoft's Support of GPT Development
02. M365 Copilot Product Demonstration
03. How Grounding (Retrieval-Augmented-Generation) Works
04. Responsible AI
05. How New Consumer Copilot Differs from M365 Copilot and Bing Chat

Microsoft's Support of GPT Development

Microsoft's Support of GPT Development

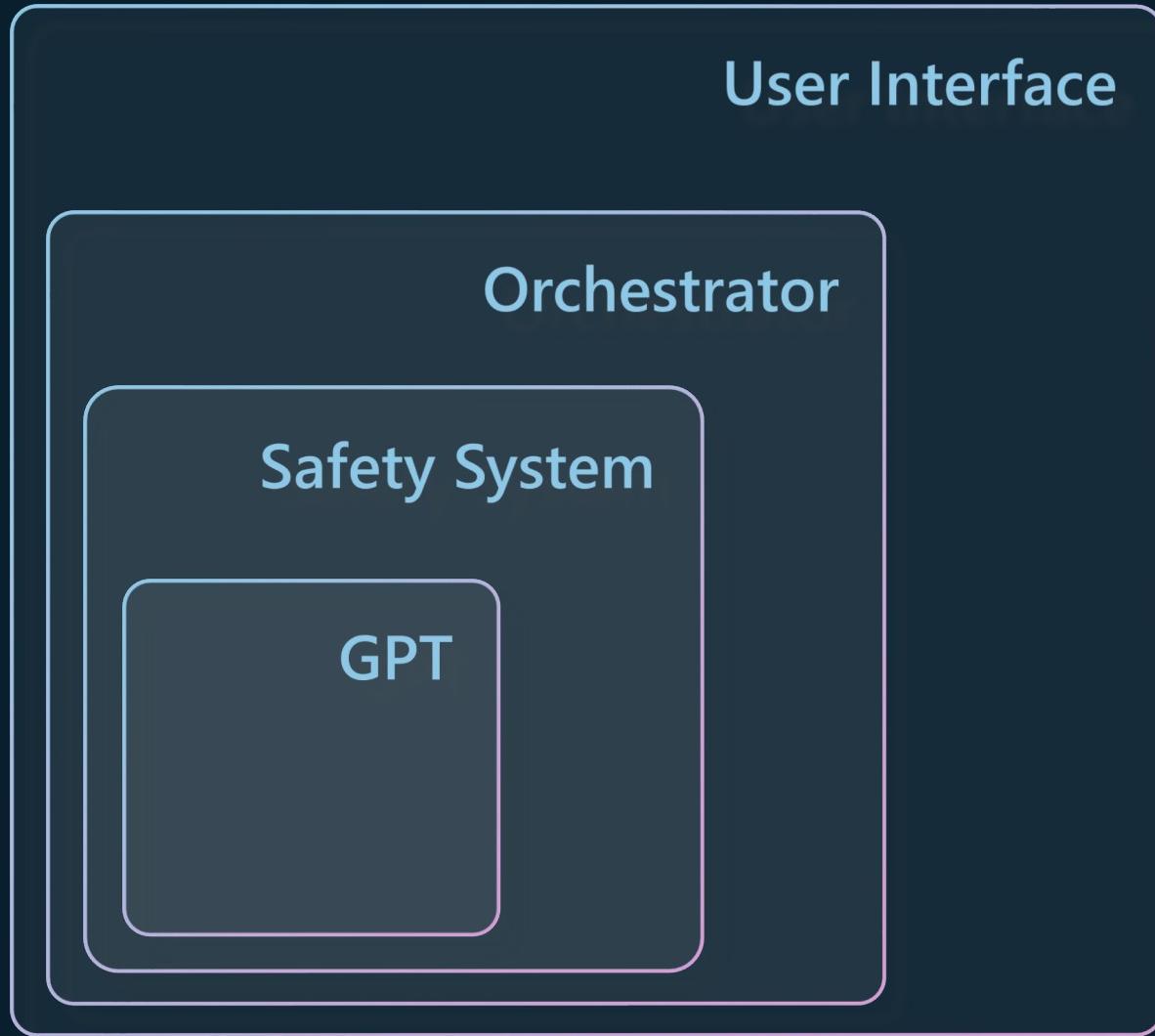
Capital Investment Training Infrastructure

- Tens of thousands of GPUs
- High bandwidth, global infrastructure scaling on demand
- Massive parallel training architecture





Microsoft 365 Copilot



M365 Copilot Product Demonstration



What The User Sees

The screenshot shows the Microsoft Copilot interface in dark mode. The left sidebar includes a search bar, a 'Chat' section (which is currently active), and sections for Agents, Conversations, Pages, Notebooks, Create, and Apps. The top navigation bar has tabs for 'Work' and 'Web', with 'Work' being the active tab. The main area features a large text input field labeled 'Message Copilot' with a '+' button and a microphone icon. Below it are three cards: 'Suggest a daily routine to help me stay organized at work' (with a blue icon), 'Suggest a few clever riddles that I can use to try to stump my...' (with a pink icon), and 'Suggest 5 office-friendly jokes' (with a red icon). A 'See more' link is located at the bottom right of the card area.

M365 Copilot

Search

Chat

Agents

Conversations

Pages

Notebooks

Create

Apps

Work Web

Message Copilot

+

Hi, how can I help?

Suggest a daily routine to help me stay organized at work
Build good habits

Suggest a few clever riddles that I can use to try to stump my...
Challenge your peers

Suggest 5 office-friendly jokes
Have a laugh

See more



What The User Sees





What The User Sees





What The User Sees



Example 1 – Ideation



Ideation Prompt

M365 Copilot

Search

Chat

Agents

Conversations

Pages

Create

Apps

Work Web

What can I help you with?

Message Copilot

+ 0

Suggest a daily routine to help me stay organized at work
Build good habits

Suggest a few clever riddles that I can use to try to stump my...
Challenge your peers

Suggest 5 office-friendly jokes
Have a laugh

See more ▾

A screenshot of the Microsoft Copilot interface. The top navigation bar includes the M365 logo, a search bar, and tabs for 'Work' and 'Web'. On the left, there's a sidebar with links for Chat, Agents, Conversations, Pages, Create, and Apps. The main area features a dark background with white text and icons. A central prompt asks 'What can I help you with?'. Below it is a message input field labeled 'Message Copilot' with a '+' icon and a count of '0'. Three cards are displayed below: one for suggesting a daily routine to stay organized, another for clever riddles, and a third for office-friendly jokes. Each card has a small icon and a 'See more ▾' link at the bottom right.



Ideation Prompt

What can I help you with?

what is a good team name for a two-person team in a trivia competition?

+

0



Suggest a daily routine to help me stay organized at work

Build good habits



Suggest a few clever riddles that I can use to try to stump my...

Challenge your peers



Suggest 5 office-friendly jokes

Have a laugh

See more ▾



Ideation Prompt

what is a good team name for a two-person team in a trivia competition?

Copilot

...



Ideation Prompt

Here are some fun and clever team name ideas for a two-person trivia team:

🎯 Clever & Punny

- Quiztopher Nolan
- Smarty Pints
- The Know-It-Alls
- Trivia Newton John
- Let's Get Quizzical

🧠 Brainy & Bold

- Double Jeopardy
- The Think Tank
- Mind Over Matter
- Fact Checkers
- The Brain Trust

🎭 Pop Culture Inspired

- Dynamic Duo
- The Quizzard of Oz
- Sherlock & Watson
- The Inquizitors
- 2 Fast 2 Curious

Example 2 – Knowledge Task with Grounding



Simple Knowledge Task with Grounding

Work **Web**

What can I help you with?



Message Copilot



0



Analyze the text in the following
and make suggestions on how t...

Sharpen your writing



Prepare a brief of today's news
from the **finance** industry...

Monitor industry news



Write some funny Out of Office
email responses to use while I'...

Going on holiday?

See more ▾



Simple Knowledge Task with Grounding

Work Web

What can I help you with?

How does the height of the Empire State Building compare to the height of the Eiffel Tower?



Analyze the text in the following and make suggestions on how t...

Sharpen your writing



Prepare a brief of today's news from the finance industry...

Monitor industry news



Write some funny Out of Office email responses to use while I'...

Going on holiday?

See more ▾



Simple Knowledge Task with Grounding

the Eiffel Tower?

Copilot

OK, I'll search for 'Height of Empire State Building and Eiffel Tower'...





Simple Knowledge Task with Grounding

the Eiffel Tower?

Copilot

The Empire State Building and the Eiffel Tower are both iconic landmarks, but they differ significantly in height and structure:

Height Comparison

- Empire State Building:
 - Total height (including antenna): **443.2 meters** (1,454 feet)
 - Roof height (excluding antenna): **381 meters** (1,250 feet) [1](#) [3](#) [2](#)
- Eiffel Tower:
 - Total height (including antennas): **330 meters** (1,082 feet) [1](#) [3](#) [2](#)

Summary

The Empire State Building is **about 113 meters (or 372 feet)** taller than the Eiffel Tower when measured from base to tip, including antennas.

Would you like a visual comparison or more details about their architecture or history?|

Show me a visual comparison.

Tell me about their construction history.





Simple Knowledge Task with Grounding

Height Comparison

- Empire State Building:
 - Total height (including antenna): **443.2 meters** (1,454 feet)
 - Roof height (excluding antenna): **381 meters** (1,250 feet) [1](#) [3](#) [2](#)
- Eiffel Tower:
 - Total height (including antennas): **330 meters** (1,082 feet) [1](#) [3](#) [2](#)

Summary

The Empire State Building is **about 113 meters (or 372 feet) taller** than the Eiffel Tower when measured from base to tip, including antennas.

Would you like a visual comparison or more details about their architecture or history?

1



Empire State Building v...
size-explorer.com

2



The Eiffel Tower's Heig...
explore.com

3

Eiffel Tower vs. Empire ...
thisvsthat.io



See all results



Show me a visual comparison.

Tell me about their construction history.





Simple Knowledge Task with Grounding

Would you like a visual comparison or more details about their architecture or history?

Sources ⓘ

Citations

- 1 Empire State Building vs Eiffel Tower - Size Explorer
size-explorer.com
- 2 The Eiffel Tower's Height Compared To Other Iconic Structures
explore.com
- 3 Eiffel Tower vs. Empire State Building
thisvsthat.io

More

- Charting the Tallest Buildings in the World Side by Side (infographic)
elitetravelblog.com
- Empire State Building - Wikipedia
en.wikipedia.org



Show me a visual comparison.

Tell me about their construction history.





Simple Knowledge Task with Grounding

Would you like a visual comparison or more details about their architecture or history?

Sources ⓘ

- 1 Empire State Building vs Eiffel Tower - Size Explorer
size-explorer.com
- 2 The Eiffel Tower's Height Compared To Other Iconic Structures
explore.com
- 3 Eiffel Tower vs. Empire State Building
thisvthat.io

More

- Charting the Tallest Buildings in the World Side by Side (infographic)
elitetravelblog.com
- Empire State Building - Wikipedia
en.wikipedia.org
- The History of the World's Tallest Buildings - Smithsonian Magazine
smithsonianmag.com



Show me a visual comparison.

Tell me about their construction history.



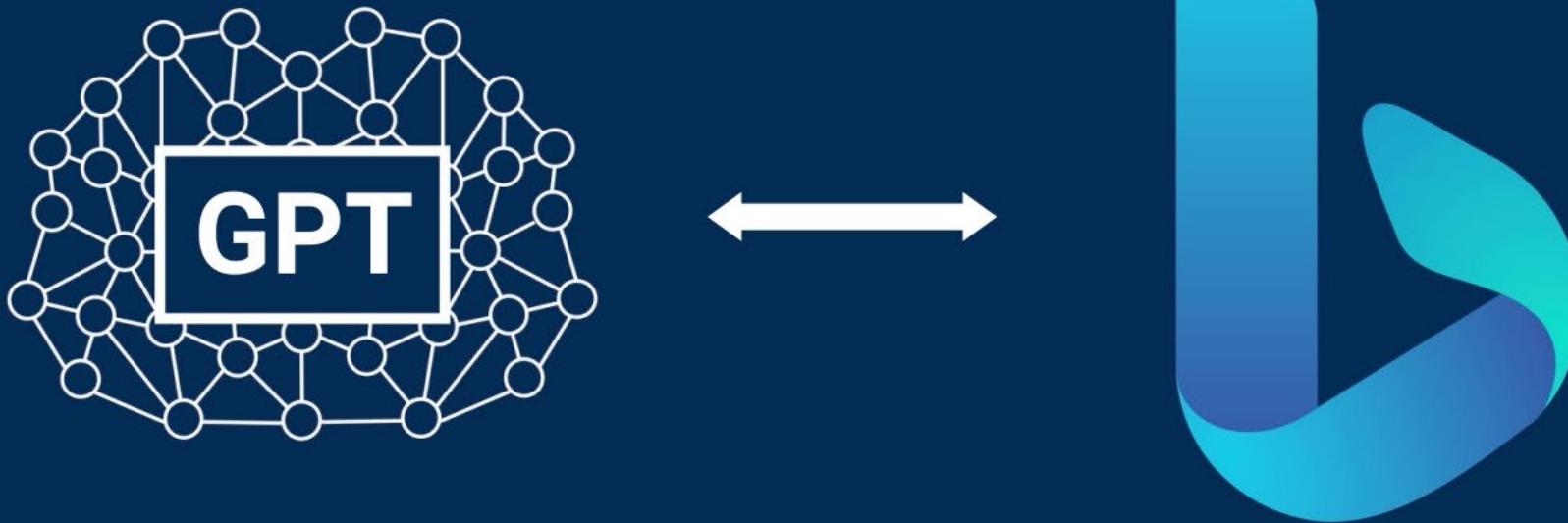
How Grounding Works



retrieval-augmented-generation



Grounding





Microsoft 365 Copilot

M365 Copilot

Search

Chat

Agents

Conversations

Pages

Create

Apps

Work Web

What can I help you with?

Message Copilot

+

0

 Suggest a daily routine to help me stay organized at work
Build good habits

 Suggest a few clever riddles that I can use to try to stump my...
Challenge your peers

 Suggest 5 office-friendly jokes
Have a laugh

See more ▾

M365 Copilot

Search

Chat

Agents

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Work Web

What can I help you with?

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See more ▾

M365 Copilot

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Work Web

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See more ▾

M365 Copilot

Search

Chat

Agents

Conversations

Pages

Create

Apps

Work Web

What can I help you with?

How does the height of the Empire State Building compare to Eiffel Tower

+

0

 Suggest a daily routine to help me stay organized at work
Build good habits

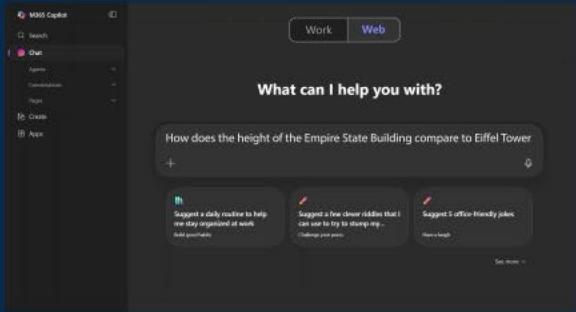
 Suggest a few clever riddles that I can use to try to stump my...
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Have a laugh

See more ▾

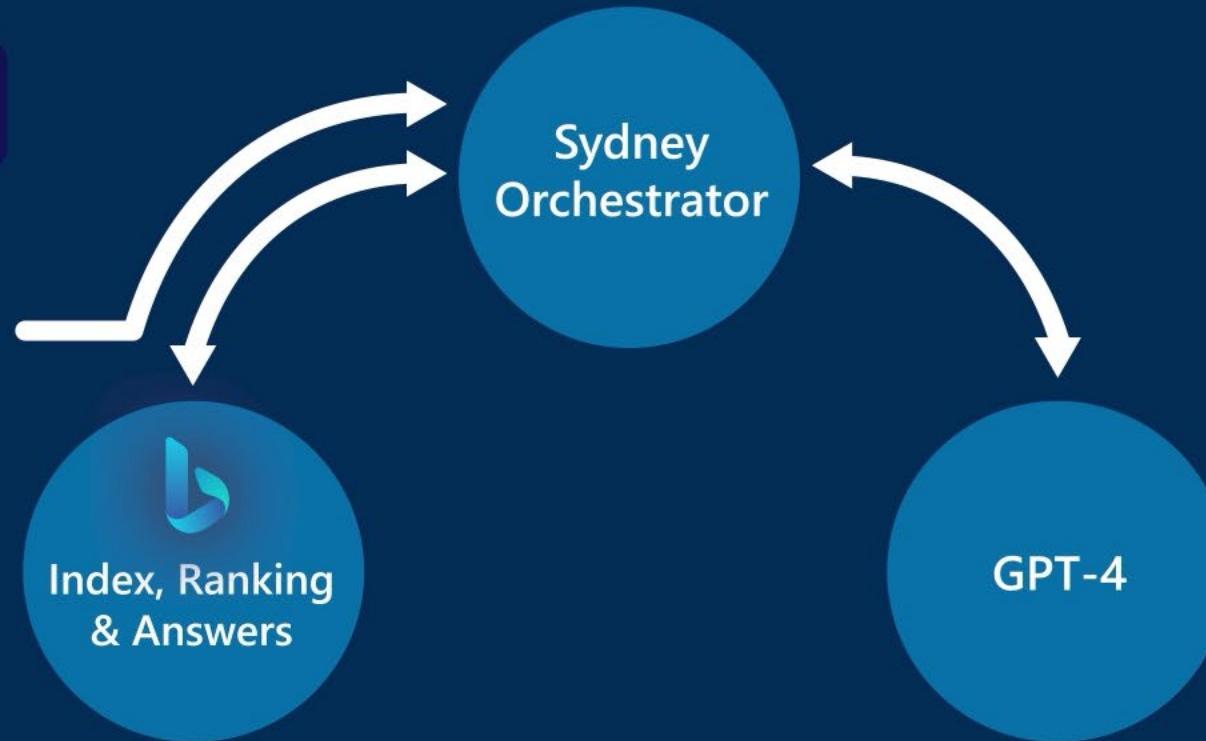
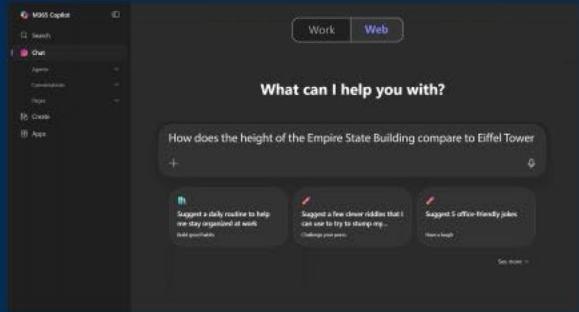
User query & conversation context

How does the height of the Empire State Building compare to Eiffel Tower



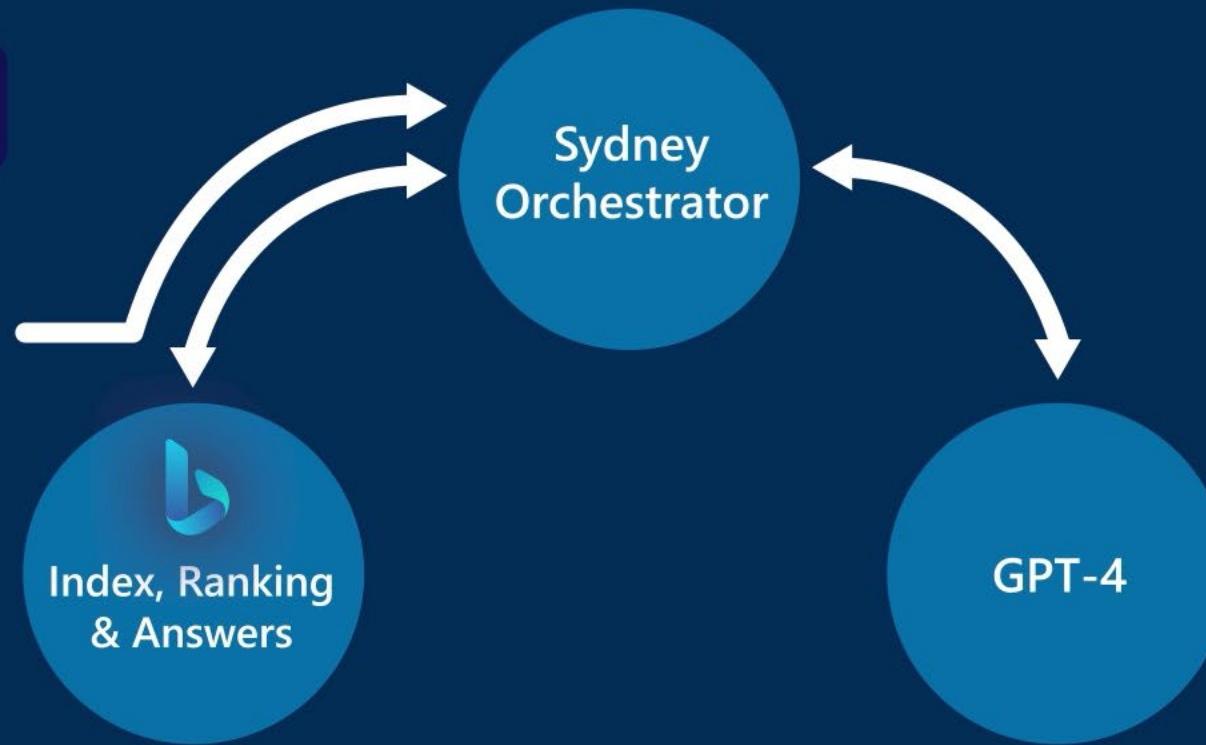
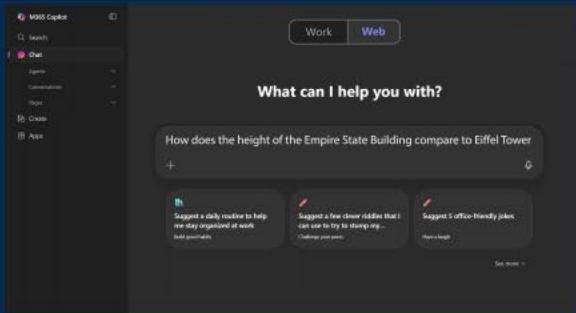
User query & conversation context

How does the height of the Empire State Building compare to Eiffel Tower



User query & conversation context

How does the height of the Empire State Building compare to Eiffel Tower



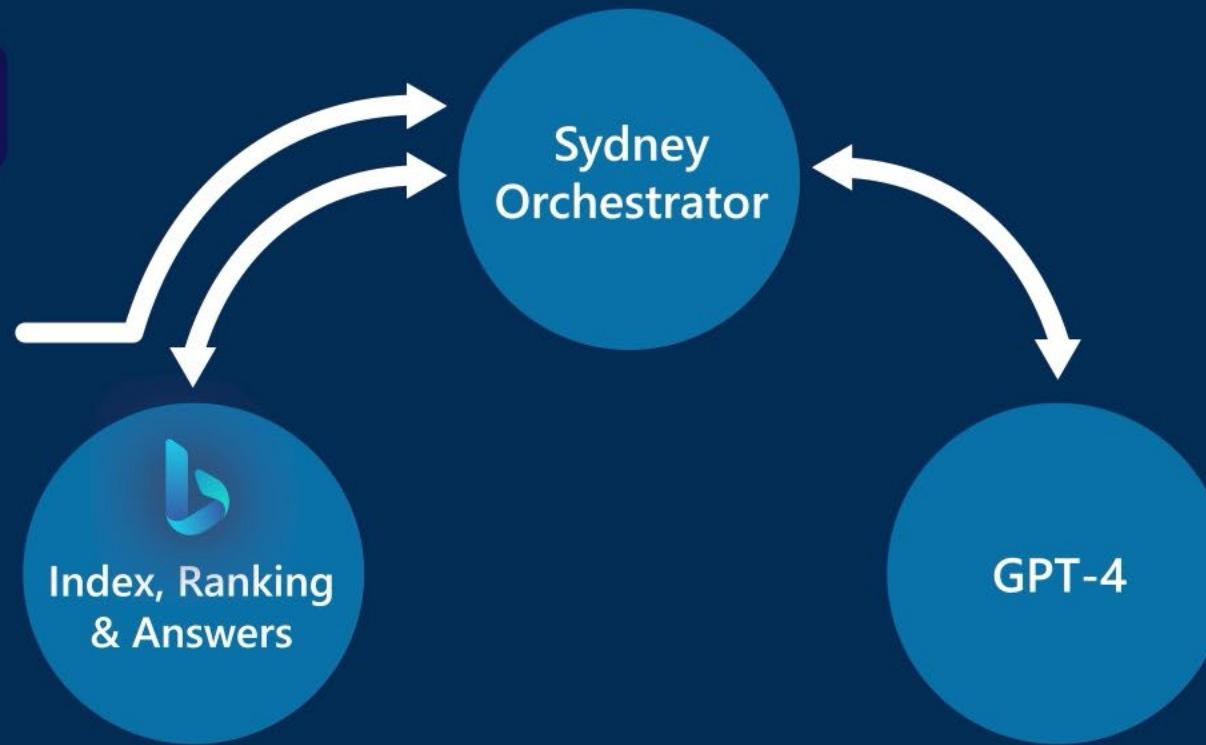
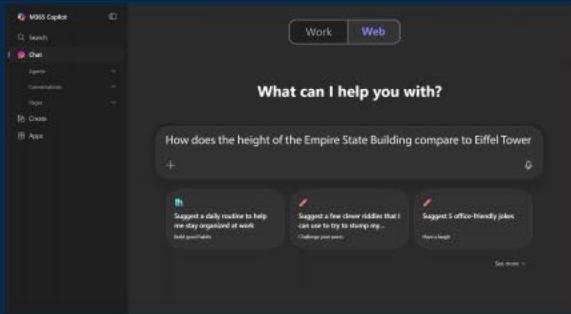
(Sydney searches for 'height of Eiffel Tower')

(Sydney searches for 'height of Empire State Building')



User query & conversation context

How does the height of the Empire State Building compare to Eiffel Tower



(Sydney searches for 'height of Eiffel Tower')

(Sydney searches for 'height of Empire State Building')



1 |  Empire State Building vs Eiffel...
size.explore.com

2 |  The Eiffel Tower's Height...
explore.com

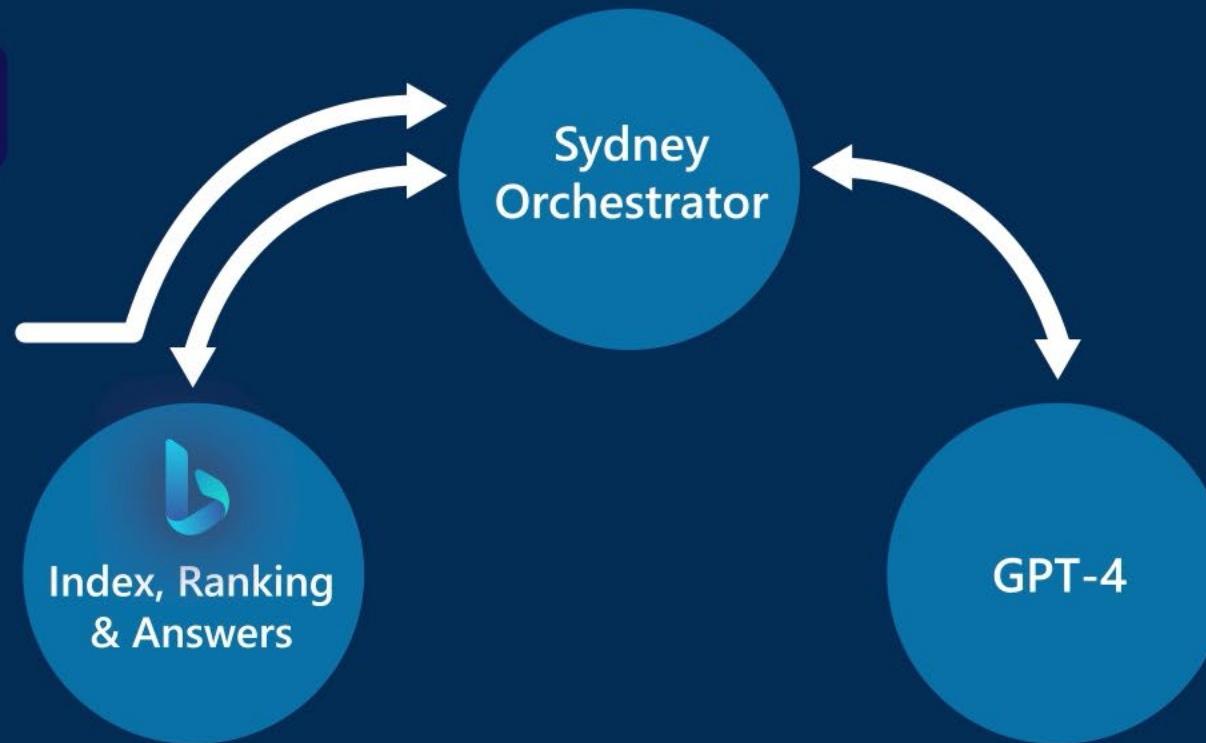
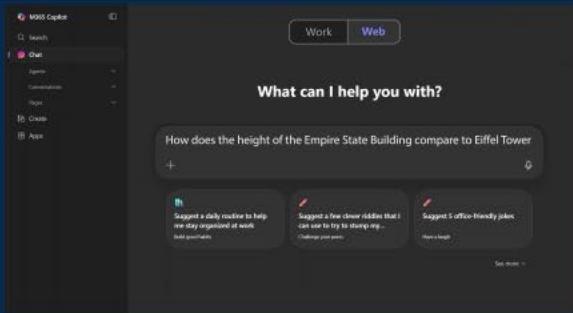
3 |  Eiffel Tower vs. Empire State...
thisvsthat.io

 Charting the Tallest Buildings in the...
elitetravelblog

 Empire State Building - Wikipedia
en.wikipedia.org

User query & conversation context

How does the height of the Empire State Building compare to Eiffel Tower



(Sydney searches for 'height of Eiffel Tower')

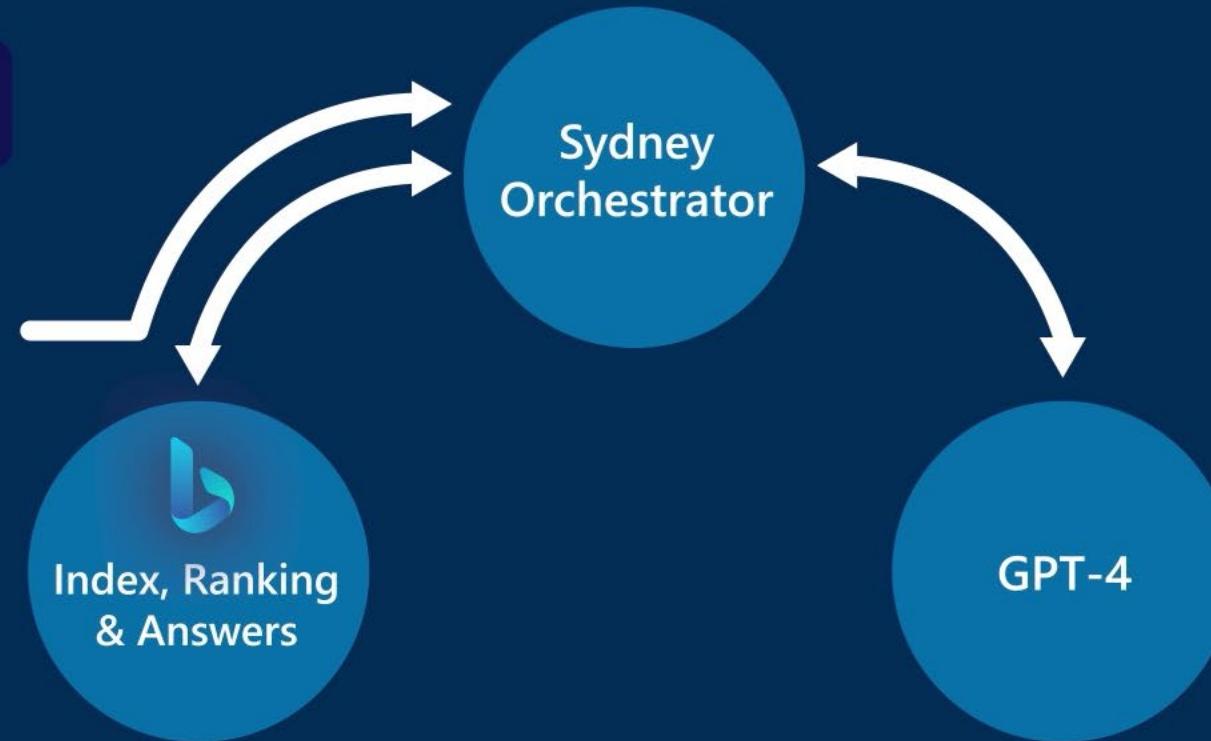
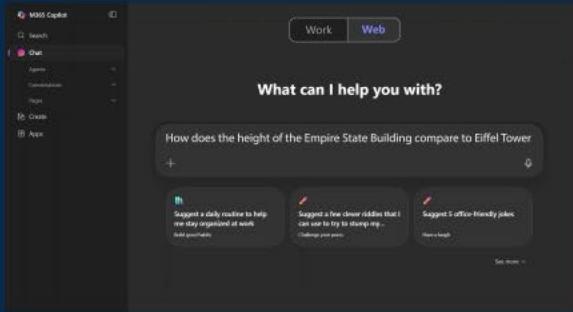
(Sydney searches for 'height of Empire State Building')



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{"sourceAttributions": [ { "id": 0, "url": "https://size.explore.com/Empire_State_Building_vs_Eiffel_Tower" }, { "id": 1, "url": "https://www.explore.com/Eiffel-Tower" }, { "id": 2, "url": "https://www.thisvsthat.io" }, { "id": 3, "url": "https://en.wikipedia.org/wiki/Empire_State_Building" }, { "id": 4, "url": "https://www.elitetravelblog.com" } ]}
```

User query & conversation context

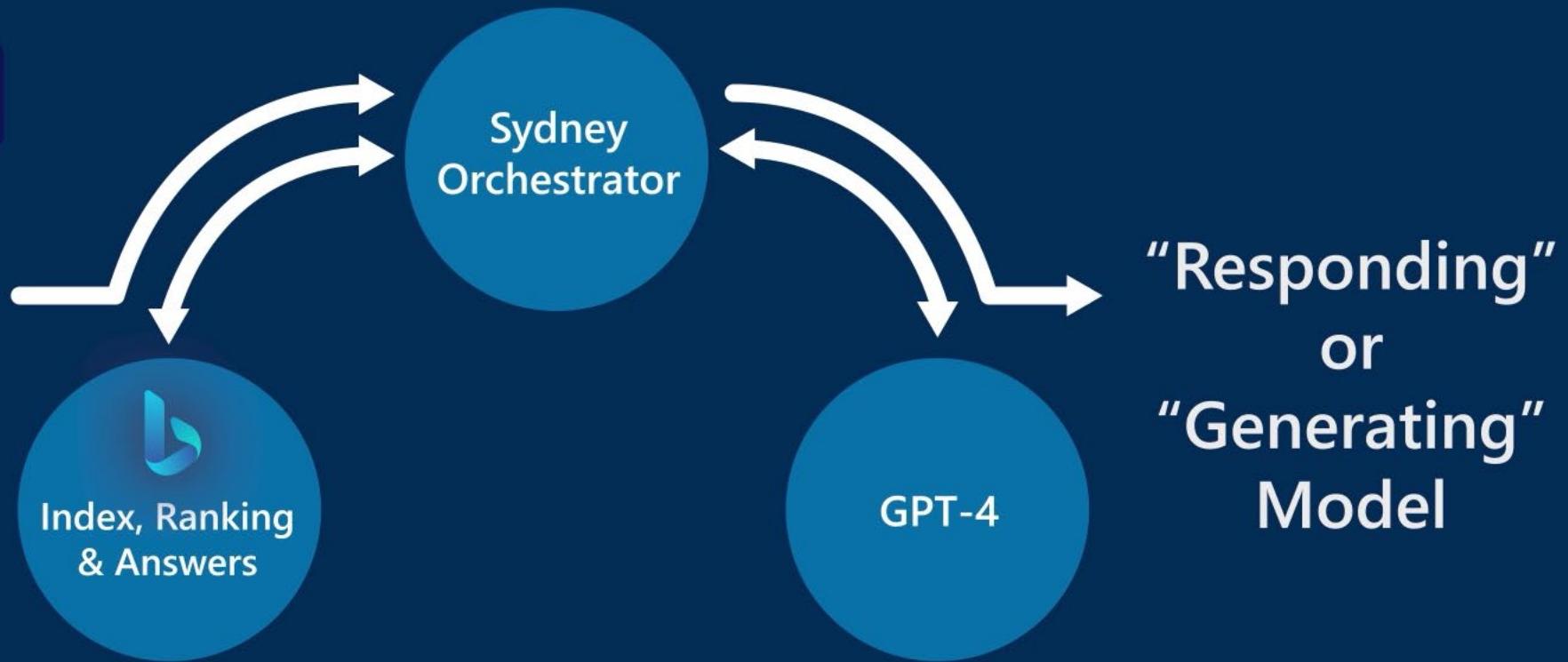
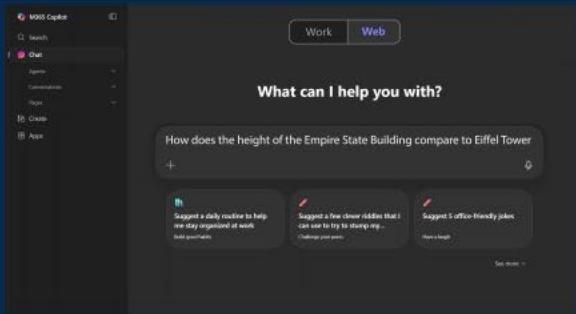
How does the height of the Empire State Building compare to Eiffel Tower



“Grounding Material”

User query & conversation context

How does the height of the Empire State Building compare to Eiffel Tower



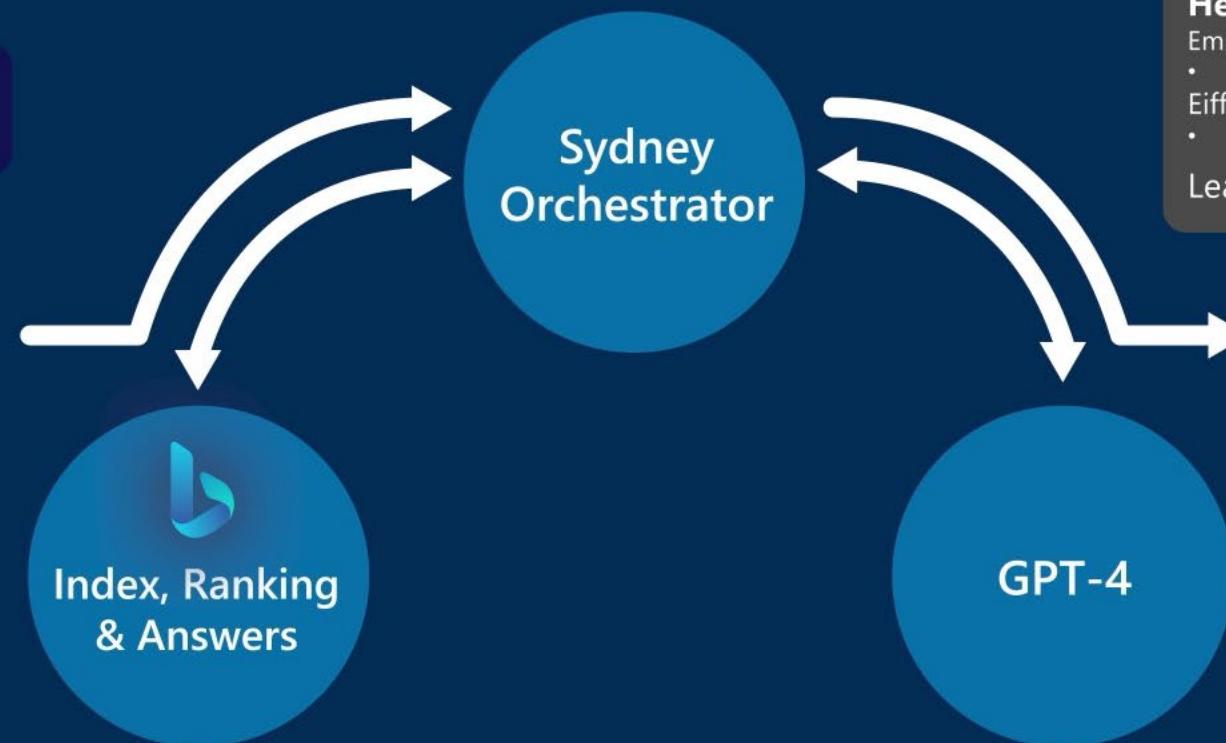
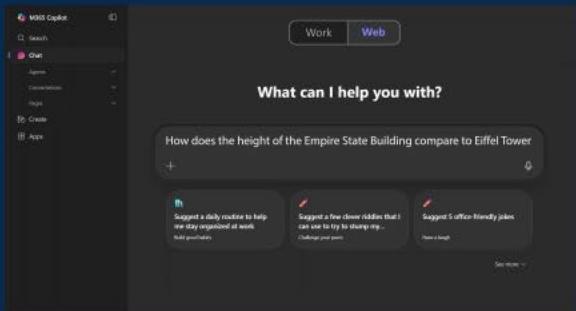
**"Responding"
or
"Generating"
Model**

```
"sourceAttributions": [
    {
        "id": 0,
        "url": "https://size.explore.com/Empire_State_Building_vs_Eiffel_Tower"
    },
    {
        "id": 1,
        "url": "https://www.explore.com/Eiffel-Tower"
    },
    {
        "id": 2,
        "url": "https://www.thisvsthats.io"
    },
    {
        "id": 3,
        "url": "https://en.wikipedia.org/wiki/Empire_State_Building"
    },
    {
        "id": 4,
        "url": "https://www.elitetravelblog.com"
    }
],
```



User query & conversation context

How does the height of the Empire State Building compare to Eiffel Tower



The Empire State Building and the Eiffel Tower are both iconic landmarks, but they differ significantly in height and structure.

Height Comparison

Empire State Building

- Total height (including antenna): 443.2 meters
- Eiffel Tower
- Total height (including antennas): 330 meters

Learn more: [1](#), [2](#), [3](#).

“Responding”
or
“Generating”
Model

The Empire State Building and the Eiffel Tower are both iconic landmarks, but they differ significantly in height and structure.

Height Comparison

Empire State Building

- Total height (including antenna): 443.2 meters

Eiffel Tower

- Total height (including antennas): 330 meters

Learn more: [1](#), [2](#), [3](#).



Complex Knowledge Task with Grounding

Work Web

Hi, how can I help?

Message Copilot

+

Message Copilot

+

Message Copilot

?

What does LLM stand for?

Decode acronyms

?

What are some techniques to help me avoid distractions and...

Stay focused

?

What are the potential benefits and drawbacks of AI-generated...

Complete the picture

See more ▾



Complex Knowledge Task with Grounding

Work Web

Hi, how can I help?

I'm considering opening a small eco-friendly cafe in Manhattan next year. Can you help me create a business plan that includes market trends, local competition, estimated startup costs, sustainable supplier options, and a basic financial projection?

+



What does LLM stand for?

Decode acronyms



What are some techniques to help me avoid distractions and...

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What are the potential benefits and drawbacks of AI-generated...

Complete the picture

See more ▾



Complex Knowledge Task with Grounding

I'm considering opening a small eco-friendly café in Manhattan next year. Can you help me create a business plan that includes market trends, local competition, estimated startup costs, sustainable supplier options, and a basic financial projection?

Copilot

OK, I'll search for 'legal requirements to open a cafe in Manhattan 2025'...



Complex Knowledge Task with Grounding

I'm considering opening a small eco-friendly café in Manhattan next year. Can you help me create a business plan that includes market trends, local competition, estimated startup costs, sustainable supplier options, and a basic financial projection?

Copilot ⓘ

Here's a comprehensive business plan outline tailored for your eco-friendly café in Manhattan, incorporating market trends, competition, startup costs, sustainable suppliers, and financial projections:

Business Plan: Eco-Friendly Café in Manhattan (2025)

1. Market Trends (2025)

Key trends shaping the café industry:

- **Sustainability:** Customers demand biodegradable packaging, zero-waste operations, and ethically sourced ingredients [③](#).
- **Plant-Based Menus:** Oat, almond, and soy milks are standard; vegan pastries and meals are growing in popularity [④](#).
- **Hyper-Local Sourcing:** Cafés are partnering with local farms and micro-roasters [③](#).
- **Tech Integration:** Mobile ordering, contactless payments, and loyalty apps are expected.

2. Local Competition

Manhattan has a vibrant café scene. Notable eco-conscious competitors include:

- **Felix Roasting Co.** – Known for sustainable sourcing and unique drinks [⑤](#).
- **Grounded Coffee House** – Organic, Rainforest Alliance certified, and plant-filled ambiance [⑥](#).
- **Merriweather** – Aussie-style café with organic coffee and healthy food [⑥](#).



Complex Knowledge Task with Grounding

Copilot ⓘ

Here's a comprehensive business plan outline tailored for your eco-friendly café in Manhattan, incorporating market trends, competition, startup costs, sustainable suppliers, and financial projections:

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- **Hyper-Local Sourcing:** Cafés are partnering with local farms and micro-roasters [③](#).
- **Tech Integration:** Mobile ordering, contactless payments, and loyalty apps are expected.



Complex Knowledge Task with Grounding

2. Local Competition

Manhattan has a vibrant café scene. Notable eco-conscious competitors include:

- **Felix Roasting Co.** – Known for sustainable sourcing and unique drinks [⑤](#).
- **Grounded Coffee House** – Organic, Rainforest Alliance certified, and plant-filled ambiance [⑥](#).
- **Merriweather** – Aussie-style café with organic coffee and healthy food [⑥](#).

To stand out, focus on:

- Zero-waste operations
- Community engagement (e.g., local art, events)
- Unique menu items (e.g., seasonal vegan specials)

3. Estimated Startup Costs

Based on 2025 data [⑦](#) [⑧](#):

Category	Estimated Cost Range
Lease (Manhattan)	\$5,000 - \$15,000/month



Complex Knowledge Task with Grounding

3. Estimated Startup Costs

Based on 2025 data [7] [8]:

Category	Estimated Cost Range
Lease (Manhattan)	\$5,000–\$15,000/month
Renovations & Decor	\$20,000–\$100,000
Equipment (espresso machine, etc.)	\$20,000–\$50,000
Initial Inventory	\$5,000–\$10,000
Licenses & Permits	\$1,000–\$3,000
Marketing & Branding	\$5,000–\$15,000
Working Capital (3–6 months)	\$30,000–\$60,000
Total Estimate	\$100,000–\$250,000



Complex Knowledge Task with Grounding

4. Sustainable Supplier Options

Here are some eco-conscious suppliers in NYC:

- **Nguyen Coffee Supply** – Direct trade Vietnamese coffee, roasted in Brooklyn [9](#).
- **Willa's Oat Milk** – Climate-positive, whole-oat milk [9](#).
- **Aqua Best NYC** – Sustainable seafood supplier [10](#).
- **Acme Smoked Fish** – Family-owned, responsibly sourced fish [11](#).
- **HowGood** – Offers sustainability data to help you choose ethical ingredients [9](#).

5. Basic Financial Projection (Year 1)

Metric	Estimate
Monthly Revenue	\$25,000–\$40,000
Monthly Expenses (rent, labor, COGS, etc.)	\$20,000–\$35,000
Monthly Profit (before tax)	\$2,000–\$5,000
Annual Revenue	\$300,000–\$480,000



Complex Knowledge Task with Grounding

5. Basic Financial Projection (Year 1)

Metric	Estimate
Monthly Revenue	\$25,000–\$40,000
Monthly Expenses (rent, labor, COGS, etc.)	\$20,000–\$35,000
Monthly Profit (before tax)	\$2,000–\$5,000
Annual Revenue	\$300,000–\$480,000
Annual Net Profit	\$24,000–\$60,000

Assumes 100–150 customers/day with an average ticket of \$8–\$10.

Would you like help turning this into a formal business plan document or pitch deck? I can also help you



Complex Knowledge Task with Grounding

Annual Net Profit

\$24,000–\$60,000

Assumes 100–150 customers/day with an average ticket of \$8–\$10.

Would you like help turning this into a formal business plan document or pitch deck? I can also help you model different financial scenarios or design a sustainable menu.

1



Food Service Establish...
nyc-business.nyc.gov

2



Coffee Shop Licenses a...
pos.toasttab.com

3



Top Cafe Trends for 20...
planetfriendlypackaging.co...

▼



Yes, please help with the formal document.

Can you suggest a sustainable menu?





Complex Knowledge Task with Grounding

Sources ⓘ

Citations

- 1  **Food Service Establishment Permit | City of New York**
nyc-business.nyc.gov
- 2  **Coffee Shop Licenses and Permits Needed in New York (2025) - Toast**
pos.toasttab.com
- 3  **Top Cafe Trends for 2025: Sustainability & Innovation**
planetfriendlypackaging.com.au
- 4  **2025 Café Trends: Innovation, Sustainability, and New Tea Pairing ...**
en.highteworld.com
- 5  **Sip in Style: 12 Manhattan's Best Coffee Shops for Every Taste**
manhattanusersguide.com
- 6  **The 20 Best Organic and Fair Trade Coffee Shops in NYC for ... - Ecocult®**
ecocult.com



Complex Knowledge Task with Grounding

Sources ⓘ

- 7 **How Much Does It Cost to Open a Cafe? (2025 Cafe Startup Costs) - Toast**
pos.toasttab.com

- 8 **How Much Does It Cost To Open A Cafe? (In 2025) - Starter Story**
starterstory.com

- 9 **10 Top Sustainable Foods Companies in New York · June 2025**
f6s.com

- 10 **Aqua Best NYC LLC**
aquabestnyc.com

- 11 **Acme Smoked Fish**
acmesmokedfish.com

More

- Opening a Restaurant - NYC Health - NYC.gov**
nyc.gov



Complex Knowledge Task with Grounding

Sources ⓘ

cornercoffeestore.com

https://bing.com/search?q=sustainable+food+and+beverage+suppliers+for+cafes+in+New+York
bing.com

Conca D'Ora
concadorofood.com

21 Exceptional Food Manufacturers in New York - Inven
inven.ai

38 Best New York City Sustainability Companies and Startups
beststartup.us

How Much Does it Cost to Open a Coffee Shop in 2025?
crimsoncup.com

Eco-Chic NYC Events: Sustainability Trends Taking Over 2025
hub.theeventplannerexpo.com

Example 3 – Data Analysis



Data Analysis – NYC Open Contracts Dataset

Recent_Contract_Awards_20250615... - Last Modified: 16m ago

Search

File Home Insert Draw Page Layout Formulas Data Review View Automate Help Litera Acrobat

AutoSave On

Comments Share

Clipboard Font Alignment Number Styles Cells Editing Sensitivity Add-ins Analyze Data Create PDF and Share link Share via Outlook Adobe Acrobat

G3 BBJ-QFAC, DESIGN-BUILD PROGRAM FOR THE NYC BOROUGH BASED JAILS PROGRAM, QUEENS FACILITY

1	ShortTitle	SelectionMethodDescription	SectionName	SpecialCaseReason	C PIN	DueDate	AddressTo	ContactName	ContractPhone	Email	ContractAmount	Contractor	Fa Addit	Row: 29005
29006	HOUSEKEEPING SERVICES	Negotiated Acquisition	Procurement	Judgment required in	06905H048110				2.12E+09		365549.00			
29007	COLD and HOT CEREAL	Competitive Sealed Bids	Procurement		8.58E+08				2.13E+09		365475.27			
29008	IT Consulting Services	Intergovernmental Purchase	Procurement		09620G0061001						365480.16	<p>contract term fr		
29009	NON-EMERGENCY PERM	Negotiated Acquisition	Procurement	Judgment required in	09610P0024007N002				9.29E+09		365456.00	Contract Term 7/1/2		
29010	PREPARED MEALS FOR N	Competitive Sealed Bids	Procurement		8.58E+08				2.13E+09		365400.00			
29011	FISH, FRESH AND FROZEI	Competitive Sealed Bids	Procurement		8.57E+08				2.13E+09		365381.00			
29012	LEGAL SERVICES	Other	Procurement		071-11S-003-784				2.12E+09		365376.00			
29013	Akamai Content Delivery Ne	M/WBE Noncompetitive Sma	Procurement		83625W0014001		John Bernabe	bernabej@			365335.00			
29014	REPLACEMENT OF TRICK	Competitive Sealed Bids	Procurement		82612WS00012				7.19E+09		365333.00	DEL-374E		
29015	Board Certified Orthopedic	Competitive Sealed Bids	Procurement		072200703HMD				2.12E+09		365040.00			
29016	Accel Emerg Demo 94-54 L	Emergency Purchase	Procurement		80623E0089001						365032.00			
29017	Bulk Asbestos Sampling an	M/WBE Noncompetitive Sma	Procurement		85624W00001001						365000.00			
29018	SENIOR SERVICES	BP/City Council Discretionary	Procurement		12519L0183001				2.13E+09		365000.00	City Council/ Borough		
29019	PIPE, BIKE RACK	Competitive Sealed Bids	Procurement		8.57E+09				2.12E+09		365000.00			
29020	LIFE SUPPORT PRODUCT	Competitive Sealed Bids	Procurement		8.57E+09				2.12E+09		365000.00			
29021	ESRI MICROCOMPUTER §	Intergovernmental Purchase	Procurement	Other (Describe belo	8.57E+09				2.13E+09		365000.00			
29022	GRP: FEDERAL SIGNAL S	Competitive Sealed Bids	Procurement		8.58E+08				2.13E+09		365000.00			
29023	PERSONAL FLOTATION D	Competitive Sealed Bids	Procurement		8.58E+08				2.13E+09		364759.00			
29024	APD-2000 CHEMICAL WAF	Emergency Purchase	Procurement	Other (Describe belo	8.57E+08				2.13E+09		364716.00			
29025	CHILDREN UNDER FIVE	BP/City Council Discretionary	Procurement		09AO062501R0X00				2.12E+09		364501.00			
29026	GSA CONTR - WESTERN !	Intergovernmental Purchase	Procurement	Other (Describe belo	8.57E+09				2.13E+09		364481.64			
29027	JUVENILE JUSTICE ALTEF	Required/Authorized Source	Procurement		06813R0001002				2.12E+09		364445.00			
29028	SIGN BLANKS, ALUMINUM	Competitive Sealed Bids	Procurement		8.57E+08				2.13E+09		364382.76			
29029	MENTAL RETARDATION S	Required Method (including F	Procurement		15MR005501R2X00				3.47E+09		364221.00			
29030	Emerg Demo 22-01 Merric	Emergency Purchase	Procurement		80825E0028001		Giacomo Fazio	fazio@hp			364175.00			
29031	CHEESES, BUTTER AND N	Competitive Sealed Bids	Procurement		8.57E+08				2.13E+09		364094.90			
29032	HIV PREVENTION SERVIC	BP/City Council Discretionary	Procurement		14AE042001R0X00				3.47E+09		364094.00			
29033	Halal Meats & Poultry	Competitive Sealed Bids	Procurement		85723B0103002						364000.00			
29034	DOC - Halal Meats & Poutr	Competitive Sealed Bids	Procurement		85723B0103002						364000.00			
29035	DOC - Halal Meats AND Po	Competitive Sealed Bids	Procurement		85723B0103002						364000.00			
29036	MWBE Award for IT Suppo	Innovative Procurement	Procurement	Available only from a	R1347040						364000.00	<p>NYC Department		
29037	BLACKWELL HOUSE REN!	Government to Government	Procurement		12615T0001001				2.13E+09		364000.00	project to be bid by		
29038	PROVISION OF ANTI-EVIC	CB/City Council Discretionary	Procurement		09616L0078001				9.29E+09		364000.00	07/01/2015 to 06/30		
29039	ANTI-EVICTON LEGAL SEB	BP/City Council Discretionary	Procurement		09615L0098001				9.29E+09		364000.00	TERM: 7/1/14 - 6/3		
29040	GRP: VEEDER - ROOT TA	Competitive Sealed Bids	Procurement		8.57E+09				2.12E+09		364000.00			
29041	GSA TELECOMMUNICATI	Emergency Purchase	Procurement	Other (Describe belo	8.57E+09				2.12E+09		363965.10			
29042	O173-122M American Trian	M/WBE Noncompetitive Sma	Procurement		84625W0014001		Charlene Dawson	charlene.d			363888.00	<p>Located at 102r		
29043	HOPWA Permanent Suppor	Negotiated Acquisition	Procurement		Other (Describe belo	81624N0013003					363837.00	<p>DOHMH will ent		
29044	DINNERS, KOSHER, GLAT	Competitive Sealed Bids	Procurement		8.57E+09				2.12E+09		363834.99			
29045	RHY Vulnerable Youth Prog	Negotiated Acquisition	Procurement		Other (Describe below in Other Legally Mandated Information)						363824.00	<p>DYCD's Runaw		
29046	CHILLER MAINTENANCE A	Competitive Sealed Bids	Procurement		81612ME0012				2.12E+09		363810.00	N/A		
29047	RADIO COMMUNICATION!	Intergovernmental Purchase	Procurement		Other (Describe belo	8.57E+09			2.13E+09		363776.00			
	NDA High School Youth Edt	Competitive Sealed Proposal	Procurement		26021Pn002010						363600.00	<p>The New York C		



Data Analysis – NYC Open Contracts Dataset

	G	H	I	J	K	L	M	N	O	P	Q	R
1	ShortTitle	SelectionMethodDescription	SectionName	SpecialCaseReason	PIN	DueDate	AddressTo	ContactName	ContactPhone	Email	ContractAmount	Contractor
49379	NYC BASED EXPERIENCE	Competitive Sealed Bids	Procurement		RFP Issue	2/9/04					-1.00	
49380	In School Youth Renewal	Renewal	Procurement		ID Numbers Listed						-1.00	
49381	Out-of-School Youth Renewal	Renewal	Procurement		ID Numbers Listed						-1.00	
49382	Youth Development/Delinquency Renewal		Procurement		See List Below						-1.00	
49383	Services for Senior Citizens	BP/City Council Discretionary	Procurement		See List						-1.00	
49384	Services for Senior Citizens	BP/City Council Discretionary	Procurement		see list below						-1.00	
49385	Scatter Site Housing II	Serv Renewal	Procurement		06905H000500						-1.00	
49386	Scatter Site Housing I	Serv Renewal	Procurement		06905H001800						-1.00	
49387	Permanent and Transition	Negotiated Acquisition	Procurement	Available only from a	06905H049700						-1.00	
49388	Services for Senior Citizens	BP/City Council Discretionary	Procurement	see list	2 Lafayette	Betty Lee					-1.00	
49389	CLINIC: THURGOOD MAR	Request for Proposals	Procurement		01SH01003R0A01						-4676.00	
49390	Homemaker Services	Contract Change	Procurement		06909H000207						-400000.00	
49391	NOTICE OF AWARD FOR	Sole Source	Procurement	Available only from a	B68-IT							
49392	PROSPECT PARK CONCE	Sole Source	Procurement	Available only from a	B073-O							
49393	INFORMATION TECHNOLOGY	Request for Proposals	Procurement		127FY1700001							
49394	EMERGENCY DECLARATION	Emergency Purchase	Procurement	Other (Describe below)	82714CC00049							
49395	AIM RENEWAL	Renewal	Procurement		78112P0001							
49396	COMPREHENSIVE OFFICE	Sole Source	Procurement	Available only from a	2561206COPST3							
49397	ANTI-EViction SERVICES	Negotiated Acquisition	Procurement	Other (Describe below)	07112A031412							
49398	HOMELESS SHELTER SEF	Renewal	Procurement		07106R0045CNVR002							
49399	SCATTER SITE HOUSING	Renewal	Procurement		SEE LIST BELOW							
49400	CLINICAL CASE MANAGEMENT	Contract Change	Procurement		SEE BELOW							
49401	OPERATION, MANAGEMENT	Sole Source	Procurement	Other (Describe below)							
49402	Services for Senior Citizens	BP/City Council Discretionary	Procurement		Listed on Line 17							
49403	Employee Account Services	Competitive Sealed Proposal	Procurement	Judgment required in	05131006							
49404	Licensing Rights to Major M	Competitive Sealed Proposal	Procurement	Judgment required in	MDC-05-0985							
49405	Services for Senior Citizens	BP/City Council Discretionary	Procurement		see list...							
49406	Services for Senior Citizens	CP/2	Procurement		see list below.....							
49407	Services for Senior Citizens	Renewal	Procurement		see list							
49408	Services for Senior Citizens	CP/2	Procurement		see list							
49409	Services for Senior Citizens	Negotiated Acquisition	Procurement	Judgment required in	see list							
49410	Services for Senior Citizens	Renewal	Procurement		see list							
49411	Services for Senior Citizens	CP/2	Procurement		see list below							
49412	Services for Senior Citizens	CP/2	Procurement		see list below.							
49413	Services for Senior Citizens	CP/2	Procurement		see list below							
49414	Service For Senior Citizens	CP/2	Procurement		See List. Below.....							
49415	Services For Senior Citizens	Competitive Sealed Proposal	Procurement	Judgment required in	SEE list...							
49416	Services for Senior Citizens	Renewal	Procurement		see list below							
49417	Services for Senior Citizens	Renewal	Procurement		see list below							
49418	Services for Senior Citizens	Renewal	Procurement		see list below							
49419	Services for Senior Citizens	Competitive Sealed Proposal	Procurement	Judgment required in	see list below							
49420	operation of a newsstand at	Competitive Sealed Bids	Procurement		#84103SIAD616	40 Worth	Emily Bee	2.12E+09				
49421												



Data Analysis – NYC Open Contracts Dataset

M365 Copilot

Search Chat Agents Conversations Pages Create Apps

Work Web

Enterprise data protection applies to this chat.

What can I help you with?

+ Copy Drop your files here

Learn the essentials to get the

Analyze the text in the following

Prepare a brief of today's news

Recent Contract Awards

OneDrive Recent Contract Awards Search Recent Cc

New Sort View Preview

X

This screenshot shows the Microsoft 365 Copilot interface. At the top, there's a navigation bar with 'M365 Copilot', 'Search', 'Chat' (which is selected), 'Agents', 'Conversations', 'Pages', 'Create', and 'Apps'. Below the navigation is a 'Work' tab. A tooltip on the right says 'Enterprise data protection applies to this chat.' In the center, a large button asks 'What can I help you with?' with a file icon and a '+ Copy' button. Below it is a 'Drop your files here' area. At the bottom, there are three cards: 'Learn the essentials to get the', 'Analyze the text in the following', and 'Prepare a brief of today's news'. A window titled 'Recent Contract Awards' is open, showing a list of files in OneDrive, with an Excel file icon visible. The interface has a dark theme with blue highlights for selected items.



Data Analysis – NYC Open Contracts Dataset

M365 Copilot

Search

Chat

Agents

Conversations

Pages

Create

Apps

What can I help you with?

Please analyze this data to give me the total period of time encompassed by the contracts and the total dollar volume of the contracts awarded.

+ 0 1

→

Learn the essentials to get the most from Copilot
Start tour >

Analyze the text in the following and make suggestions on how t...
Sharpen your writing

Prepare a brief of today's news from the finance industry...
Monitor industry news

See more ▾

This screenshot shows the Microsoft Copilot interface within the M365 Copilot application. The top navigation bar includes links for 'M365 Copilot', 'Search', 'Chat' (which is selected), 'Agents', 'Conversations', 'Pages', 'Create', and 'Apps'. A central search bar asks 'What can I help you with?'. Below it, a user query is displayed: 'Please analyze this data to give me the total period of time encompassed by the contracts and the total dollar volume of the contracts awarded.' A large blue button with a white arrow icon is positioned to the right of the input field. At the bottom, three cards offer suggestions: 'Learn the essentials to get the most from Copilot' (with a 'Start tour >' link), 'Analyze the text in the following and make suggestions on how t...' (with a 'Sharpen your writing' link), and 'Prepare a brief of today's news from the finance industry...' (with a 'Monitor industry news' link). A 'See more ▾' link is located at the bottom right of the suggestion area.



Data Analysis – NYC Open Contracts Dataset

M365 Copilot

Search Chat Agents Conversations Pages Create Apps

Work Web

Recent Contract Awards 20250615 1.xlsx

Please analyze this data to give me the total period of time encompassed by the contracts and the total dollar volume of the contracts awarded.

Copilot

Analysis

Analysis

Analysis

Message Copilot

AI-generated content may be incorrect

This screenshot shows the Microsoft Copilot interface within the M365 Copilot application. On the left, there's a sidebar with navigation links: Search, Chat, Agents, Conversations, Pages, Create, and Apps. The Chat section is currently selected. At the top right, there are tabs for Work and Web, with Work being the active tab. A file named "Recent Contract Awards 20250615 1.xlsx" has been uploaded. Below the file name, there's a text input field containing a request to analyze the data for total period and total dollar volume. The main area features the Copilot logo and three "Analysis" dropdown menus. At the bottom, there's a message input field labeled "Message Copilot" and a blue send button. A note at the bottom states "AI-generated content may be incorrect".



Data Analysis – NYC Open Contracts Dataset

M365 Copilot

Search Chat Agents Conversations Recent Contract Awards 202... All conversations Pages Create Apps

Copilot Analysis Analysis Analysis

Here's the analysis based on the contract data you provided:

- Total Period of Time Covered by the Contracts:**
The contracts span a total of 8,198 days, which is approximately 22.45 years, from the earliest start date to the latest end date.
- Total Dollar Volume of Contracts Awarded:**
The cumulative value of all contracts is approximately \$276.46 billion.

Would you like a breakdown by agency, contract type, or year?

⋮ ⏪ ⏴ ⏵ ⏹ ⏺

Please identify the top 10 vendors who were awarded contracts.

+

→

AI-generated content may be incorrect



Data Analysis – NYC Open Contracts Dataset

The contracts span a total of 8,198 days, which is approximately 22.45 years, from the earliest start date to the latest end date.

- **Total Dollar Volume of Contracts Awarded:**
The cumulative value of all contracts is approximately **\$276.46 billion**.

Would you like a breakdown by agency, contract type, or year?

Recent Contract Awards_202...

All conversations

Pages

Create

Apps

Copilot

Analyzing

Analyzing

Please identify the top 10 vendors who were awarded contracts.

Message Copilot

+

AI-generated content may be incorrect



Data Analysis – NYC Open Contracts Dataset

M365 Copilot

Analysis

Here are the top 10 vendors awarded the highest total contract amounts:

1. New York City Economic Development Corporation – \$9.15 billion
2. Power Authority Of The State Of New York – \$6.68 billion
3. LEON D. DEMATTEIS CONSTRUCTION CORP – \$3.99 billion
4. Tutor Perini O&G A Joint Venture – \$3.77 billion
5. Westhab Inc. – \$3.28 billion
6. Public Health Solutions – \$3.09 billion
7. TUTOR PERINI CORPORATION – \$3.03 billion
8. YMS MANAGEMENT ASSOCIATES INC – \$3.02 billion
9. Transformative Reform Group LLC – \$2.98 billion
10. CONVANTA 4RECOVERY L.P. – \$2.86 billion

Would you like a visual chart of this data or a breakdown by agency or contract type?

Yes, please show me a visual chart.

Can you provide more details on each vendor?

Please provide a table showing the percentage of contracts awarded using each individual selection method.

→

AI-generated content may be incorrect



Data Analysis – NYC Open Contracts Dataset

M365 Copilot

Search

Chat

Agents

Conversations

Recent Contract Awards_202...

All conversations

Pages

Create

Apps

8. YMS MANAGEMENT ASSOCIATES INC – \$3.02 billion

9. Transformative Reform Group LLC – \$2.98 billion

10. CONVANTA 4RECOVERY L.P. – \$2.86 billion

Would you like a visual chart of this data or a breakdown by agency or contract type?



Please provide a table showing the percentage of contracts awarded using each individual selection method.



Analyzing

Analysis

Message Copilot





Data Analysis – NYC Open Contracts Dataset

M365 Copilot

Search

Chat

Agents

Conversations

Recent_Contract_Awards_202...

All conversations

Pages

Create

Apps

Innovative Procurement	2.75%
Other	2.67%
Competitive Sealed Proposals/Pre-Qualified List	2.45%
Sole Source	2.07%
Required Method (including Preferred Source)	1.93%
Required/Authorized Source	1.55%
Small Purchase	0.83%
Competitive Sealed Bids/Pre-Qualified List	0.67%
Line Item Appropriation or Discretionary Funds	0.61%

Would you like this data visualized in a chart or exported to a file?

Yes, please visualize this data in a chart.

Can you export this table to Excel?

Message Copilot

+

AI-generated content may be incorrect



Data Analysis – NYC Open Contracts Dataset

M365 Copilot

Search

Chat

Agents

Conversations

Recent Contract Awards_202...

All conversations

Pages

Create

Apps

Line Item Appropriation or Discretionary Funds	0.61%
CP/2	0.45%
Government to Government	0.33%
Demonstration Project	0.18%
Negotiated Acquisition/Pre-Qualified List	0.18%
Contract Change	0.15%
Public Bid	0.08%
Request for Quote	0.08%
Cooperative Purchasing	0.06%

Would you like this data visualized in a chart or exported to a file?

Yes, please visualize this data in a chart.

Can you export this table to Excel?



Message Copilot





Data Analysis – NYC Open Contracts Dataset

- M365 Copilot
- Search
- Chat
- Agents
- Conversations
- Recent Contract Awards_202...
- All conversations
- Pages
- Create
- Apps

Request for Quote	0.08%
Cooperative Purchasing	0.06%
Contract with another Government	0.06%
IG/S	0.04%
Request for Qualifications	0.01%
RS	0.01%
Request for Information	0.00%
Client Services Waiver	0.00%

Would you like this data visualized in a chart or exported to a file?



Yes, please visualize this data in a chart.

Can you export this table to Excel?



Message Copilot

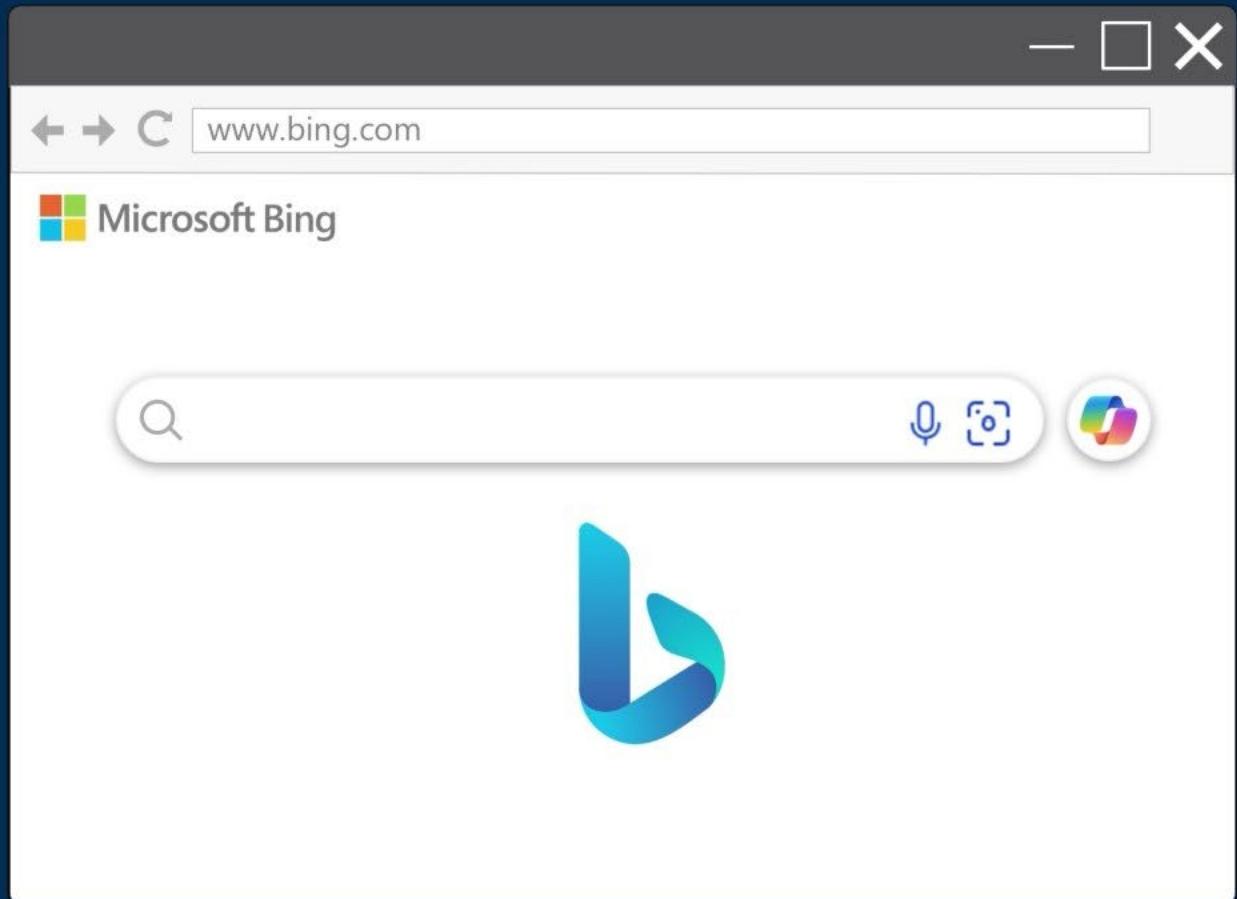


Webmaster Controls



Microsoft 365 Copilot







```
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  },
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  }
],
```

The screenshot shows the Coursera homepage. At the top, there's a navigation bar with the Coursera logo, a search bar, and links for 'Explore', 'What do you want to learn?', 'Online Degrees', 'Careers', 'Log In', and 'Join for Free'. Below the navigation, there are logos for partner institutions: University of Illinois, Duke, Google, University of Michigan, IBM, Imperial College London, Stanford, and Penn. A large blue banner features the Coursera logo. To the right of the banner, there's a section titled 'Choose your role' with three cards: 'Python Developer', 'Machine Learning Engineer', and 'Automation Engineer'. Each card includes a profile picture of a person, a brief description, median salary, job count, and a 'Credentials' section. Below this, there's a section for 'Specializations and Professional Certificates' and 'Most Popular Certificates'.

Choose your role

Gain the knowledge and skills you need to advance.

Explore all roles

Python Developer

A Python Developer specializes in writing server-side application logic.

If you like: writing code, solving complex problems through algorithms, working with data

\$135,036 median salary¹
16,486 jobs available¹

Credentials

- Python for Everybody
- Microsoft Python Development
- + 3 more

Machine Learning Engineer

A Machine Learning Engineer builds and optimizes algorithms that enable computers to learn from data, using large datasets and neural networks.

If you like: developing machine learning models, working with large datasets, coding in python or r

\$169,700 median salary¹
6,963 jobs available¹

Credentials

- AI Agent Developer
- MathWorks Computer Vision Engineer
- + 1 more

Automation Engineer

An Automation Engineer designs and implements systems to enhance efficiency and reduce manual tasks, focusing on automation and CI/CD pipelines.

If you like: developing automated solutions, writing scripts for automation, improving process efficiency

\$127,232 median salary¹
19,063 jobs available¹

Credentials

- AI Agent Developer

Specializations and Professional Certificates

Most Popular Certificates

Explore our most popular programs, get job-ready for an in-demand career.

Free Trial

Free Trial

Free Trial

Free Trial

University of Michigan

IBM

Google

IBM



```
"sourceAttributions": [
    {
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    },
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    },
]
```

The screenshot shows the Coursera website for the "Python for Everybody Specialization". The page features a large banner image of a person's head and shoulders. Below the banner, there is a purple button labeled "Enroll for Free" with the text "Starts Jun 20" underneath. To the left of the button, it says "1,795,265 already enrolled". On the right, there are sections for "5 course series", "4.8 ★", "Beginner level", "Flexible schedule", and "Build toward a degree". Below these, there are tabs for "About", "Outcomes", "Courses", and "Testimonials". A section titled "Skills you'll gain" lists various programming and data analysis skills. At the bottom, there is a section titled "Details to know" with two items: "Shareable certificate" and "Taught in English". There is also a section for "See how employees at top companies are mastering in-demand skills" with logos for Petrobras, TATA, Danone, Capgemini, R&G, and L'OREAL.

Python for Everybody Specialization

Learn to Program and Analyze Data with Python. Develop programs to gather, clean, analyze, and visualize data.

Instructor: Charles Russell Severance

Enroll for Free Starts Jun 20

1,795,265 already enrolled

Included with COURSERA HOME • Learn more

5 course series

Get in-depth knowledge of a subject.

4.8 ★

(215,964 reviews)

Beginner level

No prior experience required.

Flexible schedule

2 weeks at 10 hours a week.
Learn at your own pace.

Build toward a degree

About Outcomes Courses Testimonials

Skills you'll gain

Data Structures Data Visualization Software Data Import/Export Web Services Data Collection Application Programming Interface (API) Computer Programming Web Scraping Python Programming View all skills

Details to know

Shareable certificate

Add to your LinkedIn profile

Taught in English

26 languages available

See how employees at top companies are mastering in-demand skills

PETROBRAS TATA DANONE

Capgemini R&G L'OREAL



```
"sourceAttributions": [
    {
        "id": 0,
        "url": "https://www.coursera.org"
    },
    {
        "id": 1,
        "url": "https://www.coursera.org/specializations/python?action=enroll"
    },
]
```

The screenshot shows a web browser window with the URL <https://www.coursera.org/specializations/python?action=enroll&authMode=signup>. The page displays information about the "Python for Everybody Specialization", including course details, instructor information, and a "Join for Free" button. A modal dialog box titled "Sign up" is overlaid on the page, prompting the user to enter their full name, email, and password. The dialog also includes social media sign-in options for Google, Facebook, and Apple, and links for existing Coursera users and organizational sign-up.

Python for Everybody Specialization

Learn to Program and Analyze Data with Python. Develop programs that can process large amounts of data.

Instructor: Charles Russell Severance

Enroll for Free

1,795,283 already enrolled

Build toward a degree

5 course series

4.0 ★

Skills you'll gain

Data Structures Data Visualization Software Data Processing Python Programming

Details to know

Shareable certificate

Taught in English

See how employees at top companies in-demand skills

Already on Coursera? Log in

Having trouble logging in? Coursera help center

This site is protected by reCAPTCHA Enterprise and the Google [Privacy Policy](#) and [Terms of Service](#) apply.

Partners: TATA, Daimler, P&G, L'ORÉAL



```
 "sourceAttributions": [
    {
        "id": 0,
        "url": "https://www.coursera.org"
    },
    {
        "id": 1,
        "url": "https://www.coursera.org/specializations/python?action=enroll"
    },
],
```



```
"sourceAttributions": [
  {
    "id": 0,
    "url": "https://www.coursera.org"
  },
  {
    "id": 1,
    "url": "https://www.coursera.org/specializations/python?action=enroll"
  },
]
```

The screenshot shows a web browser window with the URL <https://www.coursera.org/specializations/python?action=enroll&authMode.signup>. The page displays the 'Python for Everybody Specialization' landing page. A modal dialog box titled 'Sign up' is open, prompting the user to enter their full name, email, and password. Below the modal, there are social login options for Google, Facebook, and Apple. The browser's developer tools are open, specifically the 'Console' tab, which is filled with error messages. These messages include warnings about mixed content (e.g., 'Mixed Content: The page at "https://www.coursera.org/specializations/python" loaded over HTTPS, but requested an insecure element "http://www.coursera.org/assets/s3/assets/www.com/115/201..."), errors related to Clickable Pixel (e.g., 'Clickable Pixel - missing "value" parameter'), and errors related to Google One Tap (e.g., 'GET /_logger/ Check credential status returns invalid response'). A large red 'X' is overlaid on the bottom right corner of the browser window.



```

"sourceAttributions": [
  {
    "id": 0,
    "url": "https://www.coursera.org"
  },
  {
    "id": 1,
    "url": "https://www.coursera.org/specializations/python?action=enroll"
  },
]
  
```

Python for Everybody | Coursera

For individuals For Businesses For Universities For Governments

Explore What do you want to learn?

Python for Everybody Specialization

Learn to Program and Analyze Data with Python. Starting program.

Instructor: Charles Russell Specialized

Start for Free Early bird \$50

1,795,289 already enrolled

includes with COURSERA+ \$100/mo • Learn more

5 course series 4.8 ★

About Getaways Courses Testimonials

Skills you'll gain

Data Structures Data Visualization Networks Network Analysis Mathematics Programming for Everybody Computer Programming

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Password *

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Join for Free

or

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Continue with Facebook

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Sign up with your organization

Having trouble logging in? Learner help center

This site is protected by reCAPTCHA Enterprise and the Google Privacy Policy and Terms of Service apply.

Partners

TATA

P&G

L'ORÉAL

Console

top Filter Default levels 57 2 hidden

Mixed Content: The page at "https://www.coursera.org/specializations/python?action=enroll" was loaded over HTTPS, but requested an insecure element "http://www.coursera.org/specializations/python?action=enroll". This request was automatically upgraded to HTTPS. For more information see https://developer.mozilla.org/en-US/docs/Web/Security/Mixed_content

Mixed Content: The page at "https://www.coursera.org/specializations/python?action=enroll" was loaded over HTTPS, but requested an insecure element "http://www.coursera.org/specializations/python?action=enroll". This request was automatically upgraded to HTTPS. For more information see https://developer.mozilla.org/en-US/docs/Web/Security/Mixed_content

Access to Fetch API: The page at "https://www.coursera.org/specializations/python?action=enroll" was loaded over HTTPS, but origin "http://www.coursera.org" may have blocked the CORS policy. No 'Access-Control-Allow-Origin' header is present on the requested resource. If an opaque response serves your needs, set the crossorigin attribute on the request to 'opaque'. For more information see https://fetch.spec.whatwg.org/#cross-origin-request-without-access-control-allow-origin

Access to Local Storage: The page at "https://www.coursera.org/specializations/python?action=enroll" was loaded over HTTPS, but origin "http://www.coursera.org" may have blocked the CORS policy. No 'Access-Control-Allow-Credentials' header is present on the requested resource. If an opaque response serves your needs, set the credentials attribute on the request to 'opaque'. For more information see https://fetch.spec.whatwg.org/#cross-origin-request-without-access-control-allow-credentials

Mixed Content: The page at "https://www.coursera.org/specializations/python?action=enroll" was loaded over HTTPS, but requested an insecure element "http://www.coursera.org/specializations/python?action=enroll". This request was automatically upgraded to HTTPS. For more information see https://developer.mozilla.org/en-US/docs/Web/Security/Mixed_content

Fetch API: Invalid parameter name. 'Content-Type' is not a valid parameter name. The browser can't calculate MD5 for private and local file paths. Instead, use the 'Content-Transfer-Encoding' or 'Content-Disposition' header in your source code and handle the 'Content-Type' parameter. See https://fetch.spec.whatwg.org/#dom-request-content-type

Fetch API: Invalid parameter value. 'Content-Type' is not a valid parameter value. The browser can't calculate MD5 for private and local file paths. Instead, use the 'Content-Transfer-Encoding' or 'Content-Disposition' header in your source code and handle the 'Content-Type' parameter with the 'Content-Type' header. See https://fetch.spec.whatwg.org/#dom-request-content-type

CORS (Content Security Policy): Your client application uses one of the Google One Tap prompt-to-status methods that may allow fingerprinting when Fingerprinting is enabled. Refer to the migration guide to update your code accordingly and opt-in to Fingerprinting if your website needs it. See https://developers.google.com/web/fundamentals/design-and-ux/patterns/fingerprinting

CORS (Content Security Policy): Check credential, review resume

Check resume

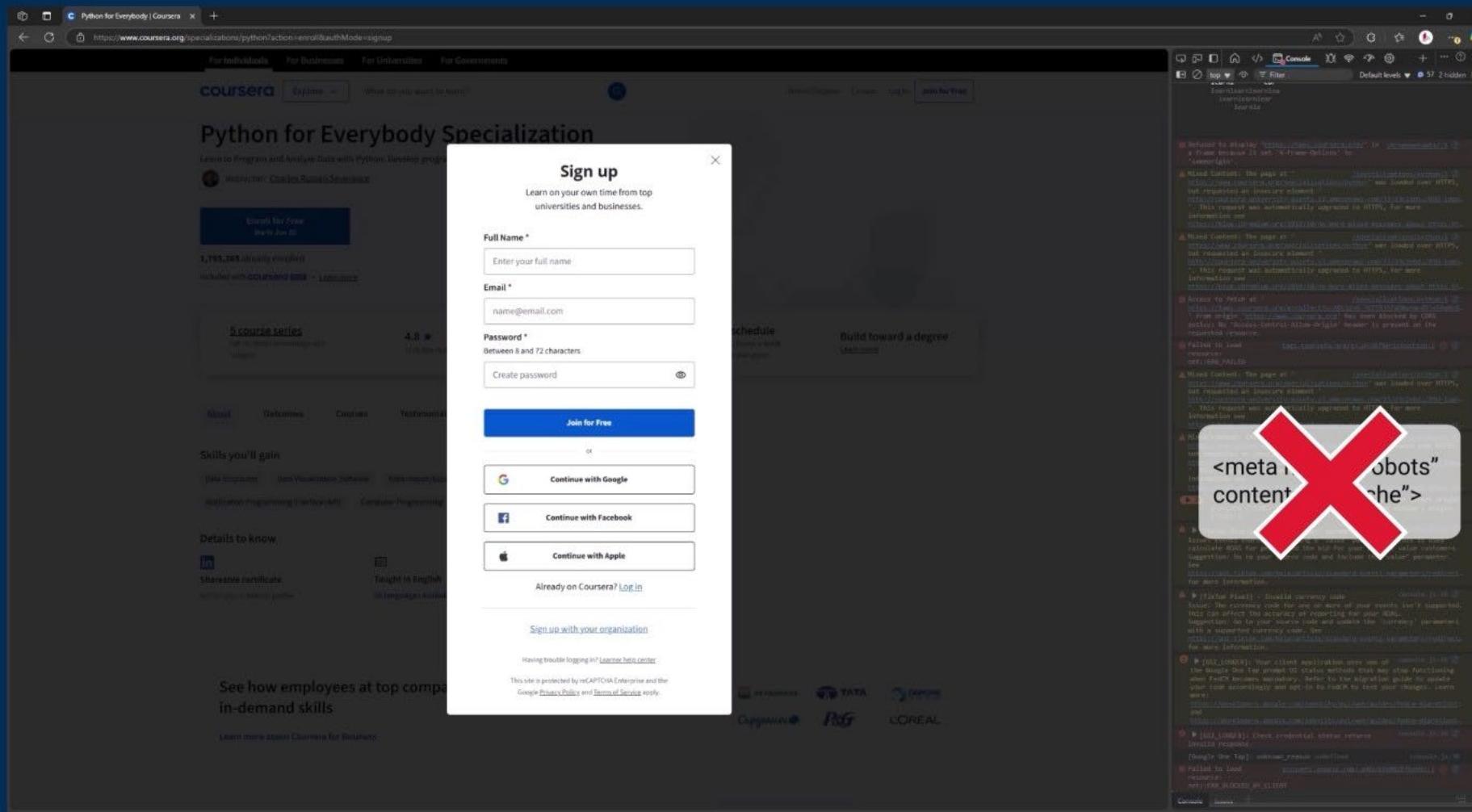
Change One Tap: invalid_usage (Status: 3170)

Failed to load https://www.coursera.org/specializations/python?action=enroll

net::ERR_BLOCKED_BY_CLIENT

<meta name="robots" content="nocache">

```
  "sourceAttributions": [
    {
        "id": 0,
        "url": "https://www.coursera.org"
    },
    {
        "id": 1,
        "url": "https://www.coursera.org/specializations/python?action=enroll"
    },
],
}
```





```
"sourceAttributions": [
    {
        "id": 0,
        "url": "https://www.coursera.org"
    },
    {
        "id": 1,
        "url": "https://www.coursera.org/specializations/python?action-enroll"
    },
]
```

The screenshot shows a web browser displaying the Coursera Python for Everybody Specialization landing page. The page features a large 'Sign up' button and fields for 'Full Name', 'Email', and 'Password'. Below the sign-up form, there are social media login options for Google, Facebook, and Apple. The developer console on the right side of the browser window highlights a specific line of code: <meta name="robots" content="noarchive">. This tag is overlaid with a large red 'X', indicating it is incorrect or unwanted. The rest of the developer console shows various log messages and network activity related to the page's loading.



```
"sourceAttributions": [
  {
    "id": 0,
    "url": "https://www.coursera.org"
  },
  {
    "id": 1,
    "url": "https://www.coursera.org/specializations/python?action-enroll"
  },
]
```

The screenshot shows a web browser window displaying the Coursera Python for Everybody Specialization sign-up page. The page has a dark background with white text. At the top, there's a navigation bar with links for individuals, businesses, universities, and governments. Below that is a search bar and a 'Join for Free' button. The main content area features a large sign-up form with fields for 'Full Name', 'Email', and 'Password'. There are also buttons for 'Join for Free', 'Continue with Google', 'Continue with Facebook', and 'Continue with Apple'. Below the sign-up form, there are sections for 'Skills you'll gain' and 'Details to know'. A large red 'X' is overlaid on the page, covering the central area. In the bottom right corner, the developer console of the browser is open, showing two error messages related to 'meta robots' content:

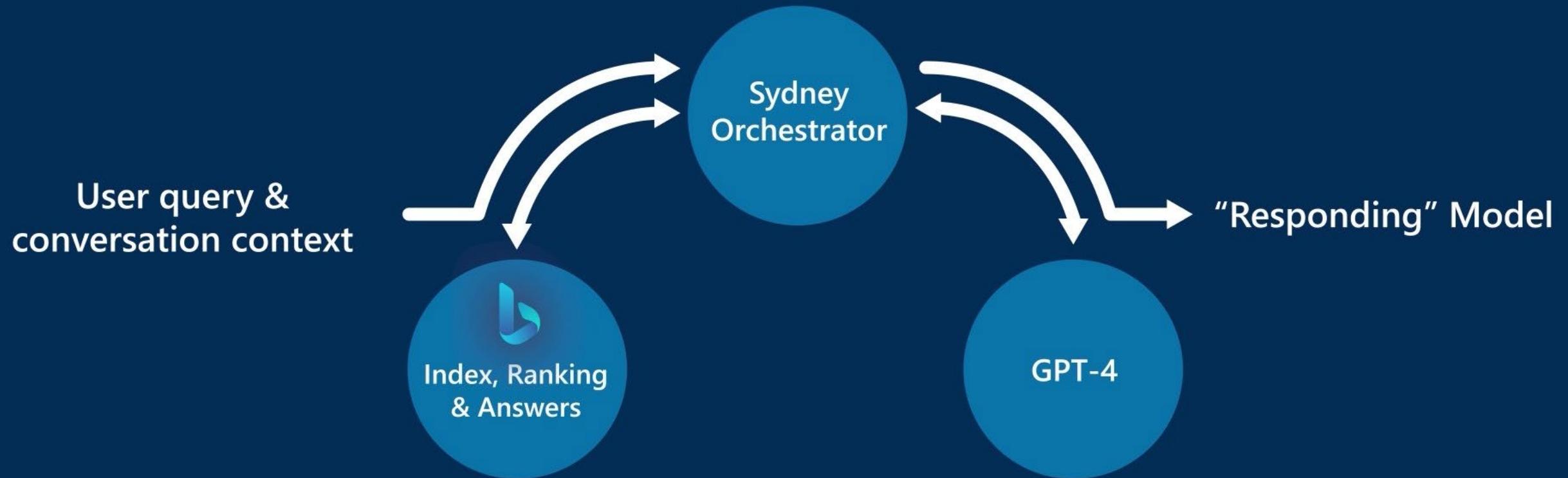
- `<meta name="robots" content="noarchive">`
- `<meta name="robots" content="noindex">`

The developer console also contains other log entries and error messages related to the page's loading and execution.



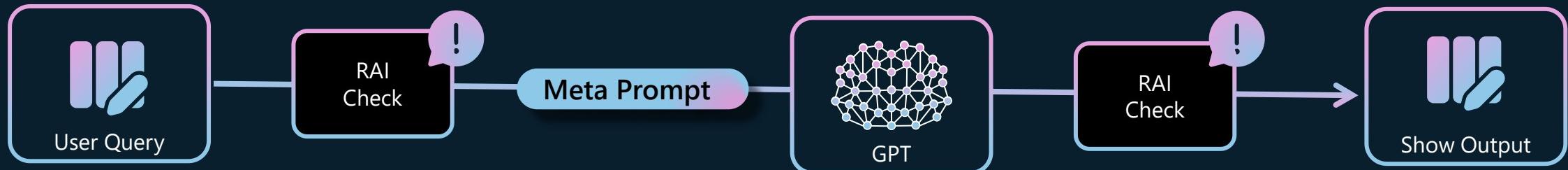
```
"sourceAttributions": [
    {
        "id": 0,
        "url": "https://www.coursera.org"
    },
    {
        "id": 1,
        "url": "https://www.coursera.org/specializations/python?action=enroll"
    },
]
```

A red icon of a pair of scissors, positioned over the second item in the JSON array, which is crossed out with a red line.A screenshot of a web browser displaying the Coursera Python for Everybody Specialization page. The URL in the address bar is <https://www.coursera.org/specializations/python?action=enroll&authMode.signup>. The page features a large 'Sign up' button and fields for 'Full Name', 'Email', and 'Password'. Below the sign-up form, there are social media login options for Google, Facebook, and Apple. A 'Join for Free' button is also visible. To the right of the sign-up form, there is a sidebar with sections for 'Build toward a degree' and 'Skills you'll gain'. The sidebar also includes links for 'Shareable certificate', 'Taught in English', and 'Learn more about Coursera for Business'. At the bottom of the sidebar, there is a section titled 'See how employees at top companies in-demand skills' with a list of companies like TATA, P&G, and L'ORÉAL. On the far right of the browser window, there is a developer tools console window showing several error messages related to meta robots tags. Two specific errors are highlighted with large red 'X' marks: one for <meta name="robots" content="noarchive"> and another for <meta name="robots" content="noindex">. The console also lists other errors such as 'Failed to load resource' and 'Mixed Content'.



Responsible AI

Responsible AI in Practice



RAI Content Mitigations

Hallucinations

Third-Party Content

Disparaging,
Existential,
Argumentative

Violence

Self-Harm

Jailbreak

Regulated
Domains

Offensive

Adult

Hate

M365 Copilot & Bing Chat versus New Consumer Copilot

Significant Differences for Discovery Purposes

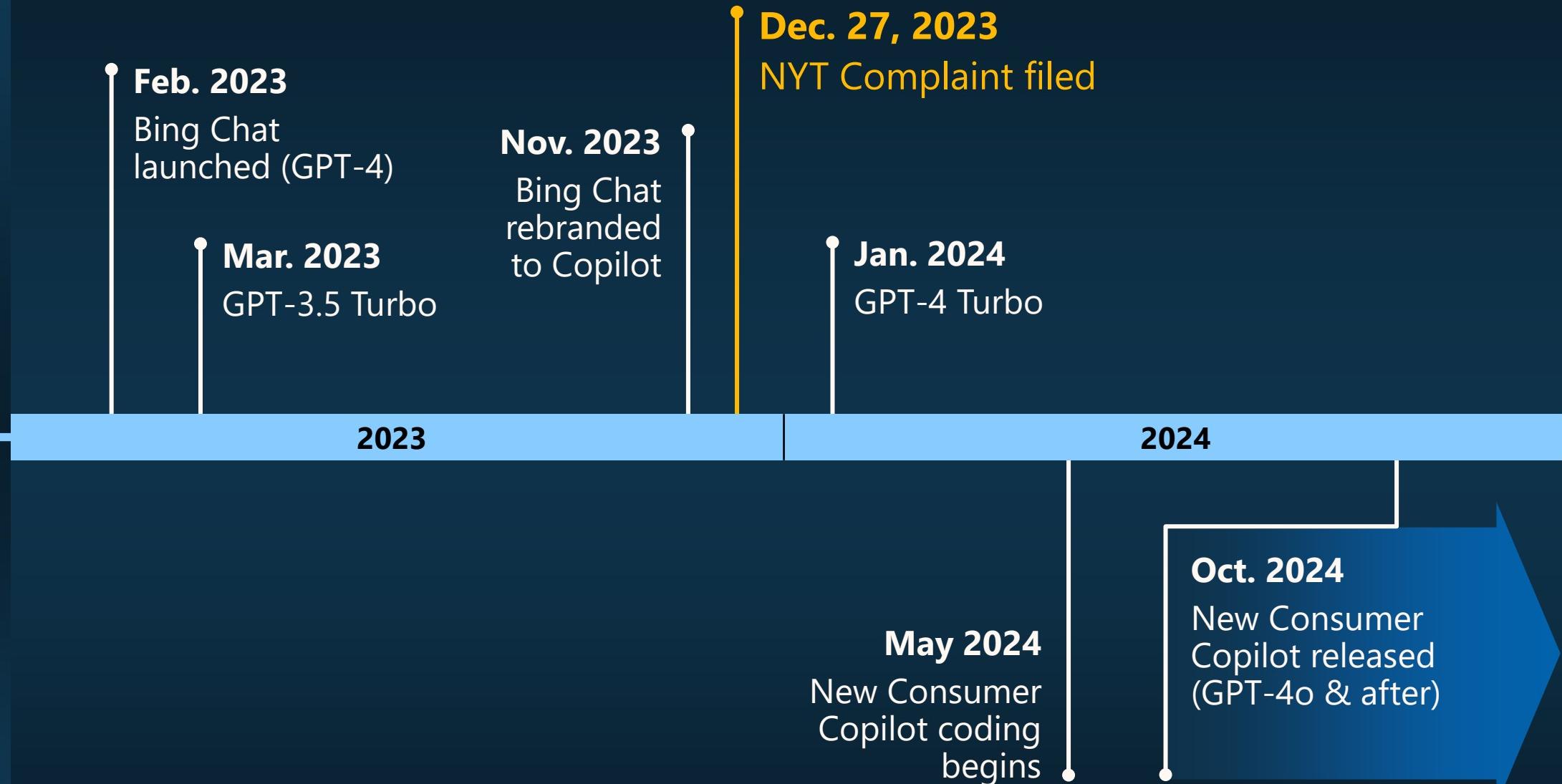
Timeline



Bing Chat
Events



New Consumer
Copilot Events



Both Are Mustangs, Very Different Under the Hood



New Consumer Copilot Is Different For Discovery Purposes

New Infrastructure

- New system architecture
- Built on different platform
- Output logs: entirely different system for capture and storage
- Incorporates only later-generation OpenAI LLMs (not previously in case as to Microsoft)

New Source Code/ Functions

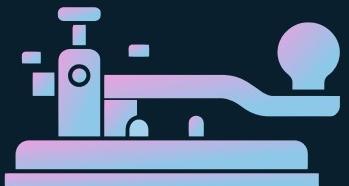
- Entirely new code base stored in different location
- Plaintiffs have already spent ~50 days examining BingChat source code
- New capability to utilize numerous new external functions
- Many new app clients providing native support across multiple surfaces

New Custodians

- Built from scratch between May and October 2024
- Back-end code written by ~300 people
- Only 2 people overlap with BingChat

The Importance of General Purpose Technologies

Single Purpose Technologies



Telegraph



Smoke
Detector

General Purpose Technologies



Electricity



Machine Tools



Clock



Drill



Information
Technology



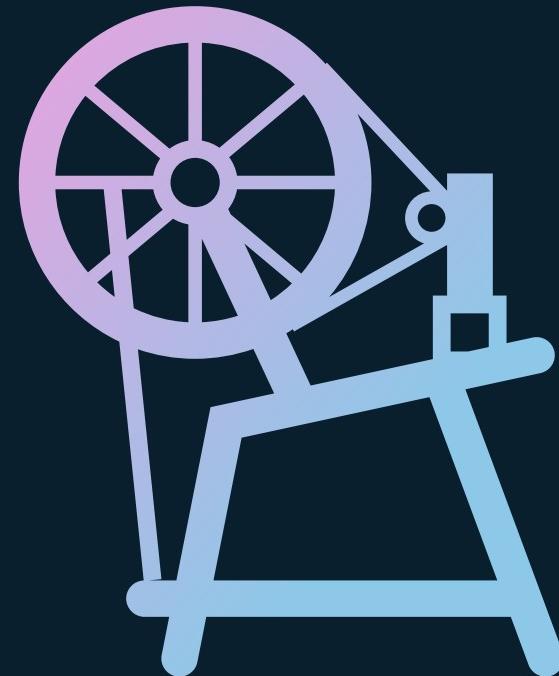
Steam Engine

GPTs Have Driven The Major Industrial Revolutions

1st Industrial Revolution



2nd Industrial Revolution



3rd Industrial Revolution

